

Form PTO-1449		ATTY DOCKET NO. 0171-0819P	APPLICATION NO. 10/073,415			
<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> <small>(Use several sheets if necessary)</small>		APPLICANT Tsutomu SHINAGAWA et al.				
APR 12 2002 PTO-1449		FILING DATE February 13, 2002	GROUP UNASSIGNED			
<b>U. S. PATENT DOCUMENTS</b>						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<b>FOREIGN PATENT DOCUMENTS</b>						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION
						YES
✓	JP62-27386B	1987-06-15	JAPAN	—	—	Abs
✓	JP62-37386B	1987-08-12	JAPAN	—	—	ABS
<b>OTHER DOCUMENTS</b> <small>(Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.)</small>						
EXAMINER			DATE CONSIDERED	8/21/03		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

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APR 25 2003

Sheet 1 of 1 (4/25/2003)

Form PTO-1449

PATENT & TRADEMARK OFFICE  
U.S. DEPARTMENT OF COMMERCEINFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(Use several sheets if necessary)

ATTY DOCKET NO.  
0171-0819PAPPLICATION NO.  
10/073,415APPLICANT  
SHINAGAWA et al.FILING DATE  
February 13, 2002GROUP  
1756

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	KIND	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
DL	US 4,563,407		January 7, 1986	Matsui et al.	430	5	
DL	US 4,096,026	-	June 20, 1978	Takeuchi	156	656	
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## FOREIGN PATENT DOCUMENTS

Office	DOCUMENT NUMBER	Kind	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
EPO	1 152 291	A2	November 7, 2001	Europe				

## OTHER DOCUMENTS (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.)

English Language Abstract of JP-59-087458 A (May 21, 1984).

English Language Abstract of JP-60-103350 (June 7, 1985).

English Language Abstract of JP-61-176934 (August 8, 1986).

English Language Abstract of JP-04-009847 (January 14, 1992).

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DATE CONSIDERED

8/21/03

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